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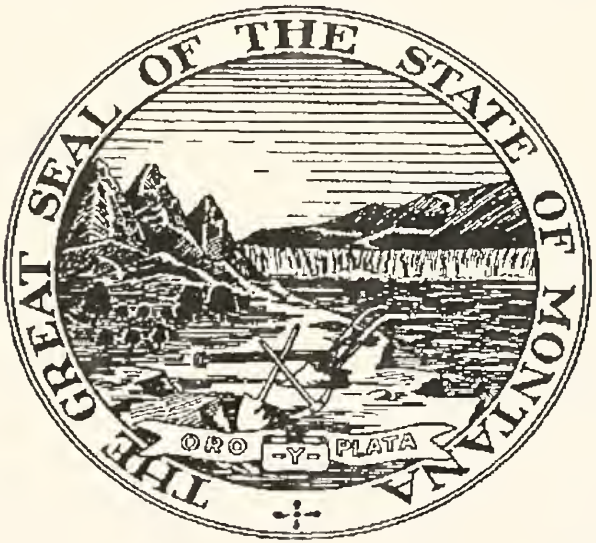
Montana Commercial

Feed / Fertilizer Report



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Volume 51, 2004

License & Registration Totals

Feed Program

	Issued as of:				
	7/01	7/02	8/03	7/04	8/05
Feed Licenses	656	625	621	629	651
Companies w/ Registrations	123	135	149	145	162
Pet Food Registrations	2700	2989	3512	3382	4076

Fertilizer Program

	Issued as of:				
	7/01	7/02	7/03	8/04	8/05
Fertilizer Licenses	234	230	232	249	237
Fertilizer Registrations -					
Companies	172	147	182	190	212
Specialty Products	738	1123	1155	1417	1380
Commercial Fertilizers	384	357	359	357	360
Soil Amendments	88	173	157	202	249

Feed Sample and Analyte History

Year	Samples Taken	Out of Tolerance	% Out of Tolerance
1984	266	64	24.1
1985	406	106	26.1
1986	290	50	17.2
1987	265	60	22.6
1988	280	57	20.4
1989	293	50	17.1
1990	310	54	17.4
1991	241	43	17.8
1992	335	76	22.7
1993	272	71	26.1
1994	312	89	28.5
1995	237	38	16.0
1996	235	77	32.8
1997	264	99	37.5
1998	296	125	42.2
1999	286	88	30.8
2000	266	71	26.7
2001	289	90	31.1
2002	258	87	33.7
2003	257	38	14.8
2004	301*	67	22.3

* 22 additional samples analyzed for animal tissue only

2004 Feed Analyte Breakdown

Nutrient	Number of Analyses	Out of Tolerance	% Out of Tolerance
Protein	265	39	14.7
NPN	23	0	0
Fiber	3	0	0
Fat	22	0	0
Moisture	36	0	0
Calcium	222	5	2.3
Phosphorus	221	11	5
Salt	113	21	18.6
Vitamin A	144	7	4.9
Magnesium	56	1	1.8
Potassium	83	2	2.4
Zinc	104	7	6.7
Iron	27	0	0
Selenium	113	6	5.3
Copper	98	7	7.1
Manganese	30	0	0
Sodium	25	0	0
Lysine	51	0	0
Methionine	27	0	0
Amprolium	3	0	0
Chlortetracycline	14	0	0
Lasalocid	9	0	0
Oxtetracycline	3	0	0
Monensin	14	2	14.3
Sulfamethazine	3	0	0
Total	1709	108	6.3

MONTANA COMMERCIAL FEED REPORTED
2004

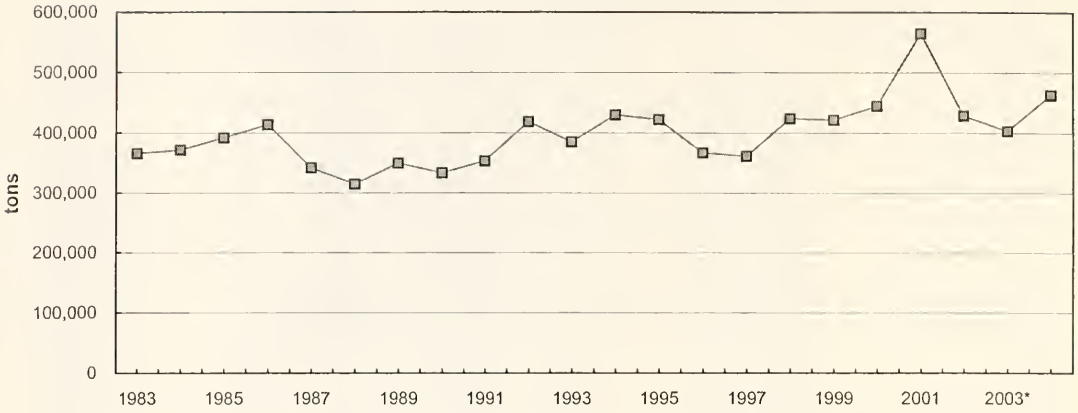
Formula Feeds		Tons
Broiler Feeds	Complete	395
	Supplement	96
Turkey Feeds	Complete	153
	Supplement	37
Starter / Grower	Complete	502
	Supplement	55
Layer / Breeder	Complete	2,235
	Supplement	982
Beef Feeds	Complete	87,740
	Supplement	77,751
Dairy Feeds	Complete	5,581
	Supplement	5,283
Swine Feeds	Complete	3,084
	Supplement	5,440
Sheep Feeds	Complete	1,807
	Supplement	2,002
Horse Feeds	Complete	8,661
	Supplement	718
Mineral Feeds		15,381
Rabbit Feeds		462
Mineralized Salt		3,116
Miscellaneous		8,636
Formula Feeds Total		**230,117**

Feed Ingredients	Tons
Alfalfa Products	8,636
Animal Products	
Barley Products	14,008
Beet Products	37,656
Brewer Products	2,402
Canola Products	3,735
Cottonseed Products	64
Drug Products	184
Fats & Oils	662
Linseed Products	135
Maize Products	28,604
Marine Products	110
Meat Products	298
Milk Products	135
Mineral Products	35,122
Molasses	6,484
Oat Products	1,194
Probiotic/Yeast	123
Safflower Products	2,573
Soybean Products	22,829
Sunflower Products	1,994
Urea	338
Vitamin Products	433
Wheat Products	56,708
Misc. Ingredients	8,409
Feed Ingredients Total	**232,836**

Total Commercial Feed: 462,953 tons

FDTNBK2004

Feed Tonnage History



Year	Tonnage
1983	365,620
1984	371,317
1985	391,558
1986	413,452
1987	341,579
1988	314,336
1989	349,280
1990	332,997
1991	352,762
1992	418,090
1993	384,607
1994	429,600
1995	421,846
1996	366,756
1997	360,971
1998	423,573
1999	421,607
2000	444,344
2001	565,070
2002	428,639
2003*	402,973
2004	462,953

* adjusted after the 2003 report was published and receiving delinquent tonnage reports

Fertilizer Sample and Analyte History

Year	Number of Samples Taken	Number of Samples Deficient	Percent Samples Deficient
1990	154	31	20.1
1991	142	18	12.7
1992	107	21	19.6
1993	89	18	20.2
1994	172	21	12.2
1995	216	31	14.4
1996	208	23	11.1
1997	124	18	14.5
1998	172	27	15.7
1999	215	31	14.4
2000	215	37	17.2
2001	222	26	11.7
2002	220	26	11.8
2003	218	27	12.4
2004	214	24	11.2

2004 Fertilizer Analyte Breakdown

Nutrient	Number Analyzed	Number Deficient	Percent Deficient
Nitrogen	185	6	3.2
Phosphate	135	10	7.4
Potash	88	4	4.5
Sulfur	43	2	4.7
Iron	12	4	33.3
Zinc	10	2	20
Copper	7	1	14.3
Magnesium	3	0	0
Manganese	8	0	0
Arsenic*	38	0	0
Cadmium*	38	0	0
Lead*	38	0	0
Total	605	29	4.8

* Trace metals tested for maxumum level allowed

MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
Reported by Montana Agricultural Statistic Districts

JANUARY - JUNE 2004

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	0	0	2358	1110	0	5200	609	9,277
Ammonium Nitrate	926	3286	4099	2354	5279	75	0	16,019
Ammonium Sulfate	1391	1404	3174	3395	1157	3070	240	13,831
Urea	2583	2242	37674	19364	5223	32137	5238	104,461
Ammonium Thiosulfate	0	138	199	55	57	367	0	816
Nitrogen Sols. 32%	23	519	87	376	325	0	0	1,330
Nitrogen Sols. 28%	8	422	2787	473	238	2724	0	6,652
Phosphorus Material	0	0	0	261	0	0	0	261
Potash Material	1564	812	7714	3782	1654	2328	862	18,716
Sulfur	48	58	31	197	1689	1	12	2,036
DAP	366	307	1325	441	530	3098	803	6,870
MAP	1732	3280	23618	13012	3940	23079	3335	71,996
APS	852	1054	3032	1955	897	804	436	9,030
10-34-0	0	196	552	287	280	674	0	1,989
OTHER BLENDS	888	298	394	482	334	85	0	2,481
MICRONUTRIENTS	33	26	354	24	205	26	60	728
GYPSUM/LIME	418	0	0	0	22	11	25	476
COMPOST	2674	867	0	0	0	0	0	3,541
TOTALS	13,506	14,909	87,398	47,568	21,830	73,679	11,620	270,510

JULY - DECEMBER 2004

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	0	0	2796	1052	69	1517	505	5,939
Ammonium Nitrate	68	3689	158	522	2477	0	0	6,914
Ammonium Sulfate	212	615	1568	1652	1263	499	128	5,937
Urea	240	715	28657	10286	8983	22430	1168	72,479
Ammonium Thiosulfate	0	118	117	74	28	56	0	393
Nitrogen Sols. 32%	206	404	35	235	424	0	0	1,304
Nitrogen Sols. 28%	0	65	1383	626	0	251	0	2,325
Phosphorus Material	0	0	0	0	0	0	0	0
Potash Material	293	1133	3922	2095	2006	1064	259	10,772
Sulfur	11	10	64	181	265	2	0	533
DAP	94	89	251	1020	298	882	928	3,562
MAP	338	1999	23606	11650	7677	4595	1355	51,220
APS	65	2758	1075	873	241	170	49	5,231
10-34-0	0	160	367	248	24	15	0	814
OTHER BLENDS	1390	67	152	364	528	104	99	2,704
MICRONUTRIENTS	15	76	579	5	174	10	8	867
GYPSUM/LIME	64	0	0	0	2	1	8	75
COMPOST	4785	0	0	0	0	0	4	4,789
TOTALS	7,781	11,898	64,730	30,883	24,459	31,596	4,511	175,858

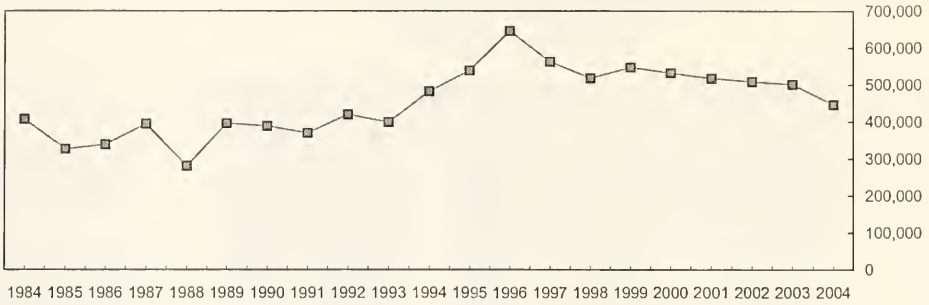
MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
FOR THE YEAR 2004

FERTILIZER	JAN.-JUN. 2004	JULY-DEC. 2004	YEARLY TOTALS
Anhydrous Ammonia	9,277	5,939	15,216
Ammonium Nitrate	16,019	6,914	22,933
Ammonium Sulfate	13,831	5,937	19,768
Urea	104,461	72,479	176,940
Ammonium Thiosulfate	816	393	1,209
Nitrogen Sols. 32%	1,330	1,304	2,634
Nitrogen Sols. 28%	6,652	2,325	8,977
Phosphorus Material	261	0	261
Potash Material	18,716	10,772	29,488
Sulfur	2,036	533	2,569
DAP	6,870	3,562	10,432
MAP	71,996	51,220	123,216
APS	9,030	5,231	14,261
10-34-0	1,989	814	2,803
OTHER BLENDS	2,481	2,704	5,185
MICRONUTRIENTS	728	867	1,595
GYPSUM/LIME	476	75	551
COMPOST	3,541	4,789	8,330
TOTALS	270,510	175,858	446,368

FRTNPK04

TOTAL NITROGEN	77,692	50,658	128,350
TOTAL P205	43,945	30,407	74,352
TOTAL K2O	11,230	6,463	17,693

Fertilizer Tonnage History



Year	Tonnage
1984	406,567
1985	325,887
1986	337,626
1987	393,505
1988	279,616
1989	395,033
1990	387,583
1991	368,868
1992	418,982
1993	397,957
1994	481,300
1995	538,356
1996	645,344
1997	562,292
1998	517,388
1999	546,943
2000	531,414
2001	516,873
2002	508,028
2003	500,941
2004	446,368

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